

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Robert Duboc, et al.

Art Unit: Not Yet Assigned

Serial No.: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: Herewith

For: **MICROELECTROMECHANICAL DEVICES WITH LUBRICANTS AND GETTERS
FROMED THEREON**

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR 1.97(b)

Commissioner for Patents
Alexandria, VA 22313-1450

Sir:

The attention of the Patent and Trademark Office is hereby directed to the following documents:

- 1) serial number 10/713,671 to Simonian, filed November 13, 2003; and
- 2) U.S Patent application. "A METHOD AND APPARATUS FOR LUBRICATING MICROELECTROMECHANICAL DEVICES IN PACKAGES" to Jim Dunphy et al, attorney docket number P132-US.

Further references are cited on the attached PTO 1449 form.

No fee or certification is required in connection with this Information Disclosure Statement, since it is being submitted prior to the last of (1) issuance of a first official action on the merits and (2) expiration of the three month period following filing of the above-captioned application.

The above information is presented so that the Patent and Trademark Office can determine any materiality thereof to the claimed invention. It is respectfully requested that the information be considered during the prosecution of this application and that the cited documents be listed on the front page of any patent issuing from this application.

The Patent Office is authorized to charge our Deposit Account No. 501516 for any fee which it
deems to be required to effect consideration of this statement.

Respectfully submitted,



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INFORMATION DISCLOSURE CITATION PTO-1449 SHEET 1 OF 2	ATTY. DOCKET NO.	SERIAL NO.	
	P146-US Not Yet Assigned		
	APPLICANT Robert Duboc, et al.		
	FILING DATE Herewith	GROUP Not Yet Assigned	

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	U.S Pub App No. 2003/0002019	1/2/03	Miller			
	U.S Pub App No. 2002/0056898	5/16/02	Lopes, et al.			
	U.S Pub App No. 2002/0063322	5/30/02	Robbins, et al.			
	6,300,294	10/9/01	Robbins, et al.			
	5,694,740	12/9/97	Martin, et al.			
	5,936,758	8/10/99	Fisher, et al.			
	5,610,438	3/11/97	Wallace, et al.			
	5,512,374	4/30/96	Wallace, et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
						<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	“Lubrication of Digital Micromirror Devices” Henck, Tribology Letters 3 (1997) 239-247
	“Micromotor Operation in a Liquid Environment” Dhuler, IEEE 1992 pgs 10-13
	“Optimization of Lubricants for silica Micromotors” Zarrd, Sensors and Actuators A 46-47 (1995) 598-600
	“Fabrication of packaged thin beam structures by an improved driving method” Masato Ohtsu, IEEE (1996) 0-7803-2985-6, pgs 228-233
	“Operation of electrostatic micromotors in liquid environments” Mehran Mehregany, J. Micromech. Microeng. 2 (1992) 1-3
	“Nanotribology and nanomechanics of MEMS devices”, Nharad Bhushan, IEEE 0-7803-298-5-6, pgs 91-98
	“Micromotor dynamics in lubricating fluids” Keren Deng, J. Micromech. Microeng. 4 (1994) 266-269
	“Stiction reduction processes for surface micromachines” Roya Maboudian Tribology letters 3 (1997) 215-221
	“Friction and Pull-off Force on Silicon Surface Modified by FIB” Ando IEEE 1996, 0-7803-2985-6/96, pgs 349-353
	“Measurement of Micromotor Dynamics in Lubricating Fluids” Deng IEEE
	“Friction and Wear studies on Lubricants and materials Applicable to MEMS” Shigehisa Suzuki, IEEE 1991, pgs 143-147

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION PTO-1449 SHEET 2 OF 2		ATTY. DOCKET NO. P146-US		SERIAL NO. Not Yet Assigned			
		APPLICANT Robert Duboc, et al.					
		FILING DATE Herewith		GROUP Not Yet Assigned			
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	6,533,632	03/18/03	Dynka				
	6,259,551	07/10/01	Jacobs				
	6,664,779 B2	12/16/03	Lopes, et al.				
	5,293,511	03/08/94	Poradish, et al.				
	6,624,944 B1	09/23/03	Wallace, et al.				
	5,929,515	07/27/99	Greiff, et al.				
FOREIGN PATENT DOCUMENTS						TRANSLATION	
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS		
						<input type="checkbox"/>	<input type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Saes getters "A key Technology" www.saesgetters.com , 2 pgs						
EXAMINER		DATE CONSIDERED					

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